

MONDAY, 13 APRIL

- Gravity Measurements: Surface Sufficient or Down Hole Needed?, *A. Loermans*
- 4D Gravity in Hydrocarbon Exploration and Reservoir Characterization and Monitoring, *F. Al Riyami*
- Exploration of Hydrocarbon Using Subsurface Geochemical Technique, *A. Dayal*

15:00-15:30 Coffee Break

Tuesday, 14 April

■ SESSION 7: LABORATORY STUDIES

Session Chairmen: *Mike Batzle & Raghu Ramamoorthy*

09:00-12:00 **Oral Presentations**..... *Awal 2*

- 3D Digital Rock Properties Analysis on Carbonate Samples, *A. Nur*
- Petrophysical Modeling in Fractured Reservoirs, How to Make the Most for the Least, *O. Fernandez and K. Hoffman*
- Laboratory Studies Needed to Support Petrophysical Evaluations in Carbonates, *R. Ramamoorthy*
- Seismic Attenuation in Carbonates, *M. Batzle and L. Adam*

10:00-10:30 Coffee Break

12:00-13:00 Lunch *Zahle Restaurant*

■ SESSION 8: STUDENT POSTERS

Session Chairmen: *Mike Batzle & Sandra Vega*

13:30-17:30 **Poster Presentations**..... *Awal 1*

- Petrophysical Study in Gulf of Suez in North America, *H. Abdallah*
- Structural Setting and Tectonic Evolution of Mango-Tineh Area: Offshore North Sinai, Egypt, *M. Yousef*
- Geology of Oman and the Types of Reservoirs in Oman, *Q. Albahri*
- Study of Seismic Velocities and Differential Pressure Dependence in a Middle East Carbonate, *A. Hassan*

- Physical and Chemical Diagenesis Effects on Acoustic Properties of Forming Carbonate Minerals: Calcite and Dolomite, *A. AlMazrooei, and S. Vega*
- Integration of Microgravity and Seismic Data for Near Surface Characterization in Eastern Saudi Arabia, *A. Al Ghanim, S. Al Zainaldin, M. Al-Ali*

15:00-15:30 Coffee Break

20:00-23:00 Gala Dinner *Poolside*

Wednesday, 15 April

■ SESSION 9: PETROPHYSICS AND LAB STUDIES 2

Session Chairmen: *Mike Batzle*

09:00-12:00 **Oral Presentations**..... *Awal 2*

- Ultrasonic P- and S-Wave Velocities in Carbonates of Arab Formation, *A. Bakhorji*
- Rock Physics Models Evaluation for Fractured and Caved Carbonate Reservoir, *Z. Sun and H. Wang*
- Discussion

10:00-10:30 Coffee Break

12:00 Meeting Adjourned

seg organizing committee

Chairman

Michael Wilt, *Schlumberger*

Ralph Bridle, *Dhrahah Geophysical Society*

Abdulfattah Al Dajani, *Saudi Aramco*

Michael Batzle, *Colorado School of Mines*

Peter Duncan, *MicroSeismic Inc.*

Alberto Marsala, *Saudi Aramco*

Michael Payne, *ExxonMobil*

Raghu Ramamoorthy, *Schlumberger*

Sandra Vega, *Abu Dhabi Petroleum Institute*

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10-15 APRIL 2009

**RESERVOIR
CHARACTERIZATION
AND MONITORING IN
CARBONATES**

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MEETING SCHEDULE

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D&P FORUM SCHEDULE

► Prayer Room Available Daily in the Manama Suite

FRIDAY, 10 APRIL

15:00-18:00 Badge Pick-up *Awal Foyer*
19:30-21:00 Icebreaker Reception.....*Poolside Deck*

SATURDAY, 11 APRIL

■ SESSION I: GEOLOGY AND CARBONATE PETROPHYSICS

Session Chairmen: *Michael Wilt & Thomas Steuber*

09:00-09:15 Opening Remarks.....*Mike Wilt, Awal 2*
09:15-12:00 **Oral Presentations**.....*Awal 2*

- Geological Framework of Carbonate Oil Field in the Arabian Peninsula, *T. Steuber*
- Geology of Carbonate Oil Fields in Saudi Arabia, *TBA*
- Microfacies of Wadi Warq Carbonates, *H. Gbitanjh*

10:00-10:30 Coffee Break
12:00-13:00 Lunch *Zahle Restaurant*

■ SESSION 2: 3D SEISMIC AND RESERVOIR CHARACTERIZATION

Session Chairmen: *Abdulfattah Al Dajani*

13:30-17:30 **Oral Presentations**.....*Awal 2*

- Generation of Accurate and Realistic Synthetic Seismograms of a Karst Reservoir Using Finite Difference Modeling, *P. Thore, V. Lisitsa, and G. Reshetova*
- Supervised Classification Applied to a Carbonate Oil Field: Theory and Application, *P. Thore and A. Neau*
- Stochastic Inversion of a Carbonate Oil Field: Theory and Application, *R. Porjesz, P. Thore, P. Doyen, R. Moyan and A. Neu*
- 3D Vertical Seismic Profiling in the UAE: A Middle East Case History, *B. Paulsson, K. Mueller, W. Soroka, M. Al Baloushi, O. Al Jeelani, M. Karrenbach and A. Chavarria*

Poster Presentations *Awal 1*

- Seismic Anisotropy Analysis on Multi-azimuth OBC Seismic Data in an Offshore Carbonate Oil Field, UAE, *H. Ikawa and T. Ishiyama*
- A Study of Permeability and Velocity Anisotropy in Carbonates, *M. Saleh, S. Vega, M. Prasad, R. Sharma*

15:00-15:30 Coffee Break

SUNDAY, 12 APRIL

■ SESSION 3: FRACTURE CHARACTERIZATION IN CARBONATES

Session Chairmen: *Abdulfattah Al Dajani*

09:00-12:00 **Oral Presentations**.....*Awal 2*

- Characterizing Fractures Using Borehole Data, Well Tests & Surface Seismic, *M. Akbar*
- Fractures Detection for the Arab D reservoir Using Multi-Azimuth Diffractions Focusing Measure: Is it Feasible?, *A. Al-Dajani*
- P-wave Fracture Prediction Algorithm Using Prestack Data with Limited Azimuthal Distribution, *Z. Sun and Y. Wang*
- An Integrated Case Study of Fracture and Cave Dominated Carbonate Reservoir Prediction, *Z. Sun and L. Liu*
- 3D-ZC OBC Multi Azimuth Seismic Data Processing and its Applications for Carbonate Field Offshore Abu Dhabi, *T. Ishiyama*

10:00-10:30 Coffee Break

12:00-13:00 Lunch *Zahle Restaurant*

13:00-19:00 Free Time

■ SESSION 4: TIME-LAPSE MONITORING

Session Chairmen: *Jie Zhang*

19:00-22:00 **Oral Presentations**.....*Awal 2*

- Time-lapse Seismic Monitoring in Carbonates-the Challenges, Successes and the Road Ahead, *J. Zhang, A. Sultan, G. Chen, D. Chu, M. Terrell, and W. Soroka*

- ExxonMobil's Experience in CO₂ Flooding and 4D Seismic Monitoring in Carbonates, *M. Terrell*
- Miscible Carbon Dioxide Flood Imaging in Carbonates: Analysis of 4D Seismic Wavelet-transform Spectral Composites, *A. Raef, L. Watney, and A. Byrnes*
- Fluid Substitution and Pressure Dependence in Middle East Carbonates, *S. Vega*

20:00-20:30 Coffee Break

MONDAY, 13 APRIL

■ SESSION 5: OTHER SEISMIC SC

Session Chairman: *Sandra Vega*

09:00-12:00 **Oral Presentations**.....*Awal 2*

- Emerging Geophysical Tools for Reservoir Monitoring in Intelligent Fields, *S. Dasgupta*
- Quantitative Analysis of LFPS Data, *M. Kelly*
- Detailed Reservoir Characterization of a Reef Complex Using Crosswell Data, *T. Morgan*
- 3D Vertical Seismic Profiling in the UAE: A Middle East Case History, *B. Paulsson, K. Mueller, W. Soroka, M. Al Baloushi, O. Al Jeelani, M. Karrenbach, and A. Chavarria*

10:00-10:30 Coffee Break

12:00-13:00 Lunch *Zahle Restaurant*

■ SESSION 6: NON SEISMIC METHODS

Session Chairmen: *Alberto Marsala & Michael Wilt*

13:30-17:30 **Oral Presentations**.....*Awal 2*

- Overview on Non Seismic Geophysics, *A. Marsala*
- Using Crosswell EM to Monitor Water Floods in the Middle East, *M. Wilt*
- 2D Joint Inversion (gravity + seismic) Applied to Structural Issues from North Oman, *M. Virgilio*
- Simultaneous Joint Inversion of EM Gravity and Seismic Data, *M. Virgilio*